

REPORTING PERIOD: August 2002

I. PROGRESS

1.0 General Construction – N/A

- a. Activity - NA
- b. Photographs - NA
- c. Hours worked -NA
- d. Cumulative hours worked -NA
- e. Subcontractor's schedule evaluation -NA
- f. Earned Value Reports - NA
- g. Engineering Change Proposals/ Requests -NA
- h. Upcoming issues –NA

2.0 Project Support

- a. Activity – Hanson Engineers submitted the final drawings on 8/26/02. Paul Lahn began a QA review of the entire set.
- b. Title 2 schedule development – Hanson submitted a final schedule on 8/28/02. Revisions are required due to problems in logic and missing activities.
- c. Amendment #1 may be prepared by Hanson Engineers to potentially include the following changes:
 - 1. Revise wall pack HVAC units to rooftop type unit - required by FESS/OPS
 - 2. Revise Switch tie in details/ "Have T&M put the duct in" - required by FESS/OPS
 - 3. Provide details of LCW tie in at MI-30 - awaiting further direction from Beams
 - 4. Change lift from hydraulic to rack and pinion.(maybe) - Potential cost savings measure.

We anticipate Hanson will begin Amendment #1 work mid September and complete the work by the end of September.

- d. The final cost estimates have been submitted and are detailed in the following sections.

SCHEDULE INFORMATION AND MILESTONES:

| MILESTONE | DEFINITION | BASELINE | PEP Dates | Latest Estimates |
|--------------------------|--|-----------------|----------------------|-----------------------------|
| Start Project | Directive signed | 30 May 02 | 30 May 02 | 26 Jun 02 (actual) |
| T2 Design Complete | Contract documents submitted for procurement | 15 Jan 03 | 15 Aug 02 | 11 Sep 02 |
| Begin Construction | Notice To Proceed Issued | 27 Jun 03 | 21 Nov 02 | 27 Nov 02 |
| Construction Complete | Final acceptance of all work | 9 Jun 04 | 9 Dec 03 | 26 Nov 03 |
| Project Complete | Project closed | 30 Nov 04 | 10 Dec 03 | 26 Dec 03 |



c. Construction Cost Estimate Summary (reported only during T2 development)

| | Baseline Estimate W/ OHP | T2 Estimate | Explanation |
|---------------------------------|--------------------------|-------------|--|
| Administration | \$0 | \$224,200 | Cost for Superintendant, trailer and scheduler |
| Sitework | \$503,624 | \$301,169 | Detailed design has established exact quantities |
| Concrete | \$526,516 | \$700,924 | Detailed design has established exact quantities |
| Masonry | \$31,742 | \$31,886 | |
| Metals | \$176,882 | \$240,541 | Detailed design has established exact quantities |
| Thermal and Moisture Protection | \$171,690 | \$151,488 | |
| Finishes | \$103,368 | \$65,242 | |
| Conveying Systems | \$212,400 | \$206,960 | |
| Mechanical | \$122,720 | \$156,103 | |
| Electrical | \$336,772 | \$419,335 | Detailed design has established exact quantities |
| Main Subcontract Subtotal | \$2,185,714 | \$2,497,848 | |
| Work by FNAL | | | |
| Procure Chiller | \$17,700 | \$10,000 | |
| Procure Transformer | \$29,500 | \$22,000 | |
| T&M Cabling | \$18,880 | \$15,000 | |
| Cable Tray | \$35,400 | \$20,000 | |
| Set Shielding Steel | \$35,400 | \$25,000 | |
| Misc Subcontract Subtotal | \$136,880 | \$92,000 | |
| Total of Subcontracts | \$2,322,594 | \$2,589,848 | |

f. Costs incurred in this reporting period (Please see attached Work Package Query on HYM for 8/02, also see attached TPC Earned Value reports for more information)

| | <u>Actual Costs</u> | <u>Total Costs to date</u> |
|----------------------|---------------------|----------------------------|
| FESS including M&S= | \$12,736 | \$21,552 |
| Hanson Engineers = | \$41,283.08 | \$41,283.08 |
| Project Management = | \$966.86 | \$966.86 |
| G&A | \$10,858.06 | \$13,386.91 |
| Total = | \$65,844.00 | \$77,188.85 |

g. Support Cost Summary:

| | <u>Baseline Estimate</u> | <u>T2 Estimate</u> | <u>Explanation</u> |
|---------------------------------------|--------------------------|--------------------|--|
| Project Engineering | \$465,000 | \$480,000 | |
| T2 Design - Hanson Engineers | | \$95,000 | |
| T2 Design - FESS | | \$50,000 | Estimated 1 FTE for July, August, Sept, Oct, Nov |
| T3 Support - CM | | \$140,000 | Estimated 1 FTE for 13 mo. |
| T3 Support - Inspection | | \$105,000 | Estimated .75 FTE for 13 mo. |
| T3 Support - Technical (Sub., design) | | \$70,000 | Estimated .5 FTE for 13 mo. |
| <i>Project Management</i> | | \$20,000 | <i>Not programmed in PEP</i> |
| Project Support Contingency | \$99,000 | \$49,000 | |
| Project Support G&A | \$166,000 | \$166,000 | |
| Escalation | \$33,000 | \$33,000 | |
| Total | \$763,000 | \$728,000 | |

Note: Prior to AIP project approval in June of 2002 approximately \$168,500 of Advanced Conceptual Design was performed by FESS/ Engineering and Hanson under budget code RTB.



II. Overall Project Cost Summary

| | | BASELINE PROJECT COSTS (2001 dollars) | | T2 Estimate (2002 Dollars) | |
|---------------------------------|----------------------------------|---------------------------------------|--|----------------------------|-------|
| 1.1 General Construction | | \$ 3,047,000 | | \$ 3,082,000 ** | |
| 1.1.1 | Construction W / 18 % O H P | \$ 2,323,000 | | \$ 2,589,848 * | |
| 1.1.2 | Construction Contingency 22 % | \$ 511,000 | | \$ 335,152 | 13 % |
| 1.1.3 | Construction G & A | \$ 83,000 | | \$ 83,000 | |
| 1.1.4 | Escalation (4.6 %) 4.6 % | \$ 130,000 | | \$ 74,000 | 2.5 % |
| 1.2 Project Support | | \$ 763,000 | | \$ 728,000 | |
| 1.2.1 | Project Engineering | \$ 465,000 | | \$ 480,000 | |
| 1.2.2 | Project Support Contingency 21 % | \$ 99,000 | | \$ 49,000 | 10 % |
| 1.2.3 | Project Support G & A | \$ 166,000 | | \$ 166,000 | |
| 1.2.4 | Escalation (4.6 %) | \$ 33,000 | | \$ 33,000 | |
| Total Project Cost | | \$ 3,810,000 | | \$ 3,810,000 | |

*Based on an estimate from Hanson Engineers and the latest estimates of the misc. subcontracts. See construction cost sheet for more details. Escalation is reduced because Hanson's estimate utilizes Means 2002 data.

**Showing estimated costs as design develops while attempting to hold the TPC. When Title II development is final, contingencies and funding distribution may have to be modified.



ATTACHMENTS

Act 70 Report for 8-02

Work Package Report for 8-02

ACT70 Inquiry 2.0a

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5 - PlantBudget Code
HYMPeriod
AUG-02

Note: See user manual for information on time periods

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| Source CE Category | Vendor | PO Number | Line Description | WBS Type | Change In Commitment | Amount Accrued |
|--|----------------------------|---------------|--|-----------|-------------------------|-------------------|
| 1D MassAllocation Allocation | | | VACATION ACCRUAL- MONTHLY | GL | \$0.00 | \$87.31 |
| Cost Element 1D Totals: | | | | | \$0.00 | \$87.31 |
| 1F MassAllocation Allocation | | | OPTO ACCRUAL- MONTHLY | GL | \$0.00 | \$48.50 |
| Cost Element 1F Totals: | | | | | \$0.00 | \$48.50 |
| 1V MassAllocation Allocation | | | FRINGE ON INTRADIV LABOR TRANSFERS | GL | \$0.00 | \$184.32 |
| Cost Element 1V Totals: | | | | | \$0.00 | \$184.32 |
| 1W Effort Reporting Labor Transfers | | | 1W61-0208-049736- BEAMS Effort Xfer | GL | \$0.00 | \$646.73 |
| Cost Element 1W Totals: | | | | | \$0.00 | \$646.73 |
| 25 Service Center Chargebacks | | | FESS Chargebacks | GL | \$0.00 | \$12,736.00 |
| Cost Element 25 Totals: | | | | | \$0.00 | \$12,736.00 |
| 43 Manual Cost Transfers | | <u>544731</u> | J69A PROFESSIONAL SERVICES MI-31 | GL | \$0.00 | \$34,795.08 |
| 43 Manual Cost Transfers | | <u>545084</u> | J69A PROFESSIONAL SERVICES MI-31 | GL | \$0.00 | \$4,015.75 |
| 43 Manual Cost Transfers | | <u>545085</u> | J69A PROFESSIONAL SERVICES MI-31 | GL | \$0.00 | \$2,472.25 |
| 43 | HANSON ENGINEERS INC | <u>546795</u> | 1 PROFESSIONAL A/E SERVICE RELATED TO CIVIL, ARCHITE | Purchases | \$21,000.00 | \$0.00 |
| 43 | HANSON ENGINEERS INC | <u>546924</u> | 1 PROFESSIONAL A/E SERVICE RELATED TO REVISED MASTER | Purchases | \$2,000.00 | \$0.00 |
| Cost Element 43 Totals: | | | | | \$23,000.00 | \$41,283.08 |
| 81 MassAllocation Allocation | | | G&A RATE APPLD TO AR/PLT | GL | \$0.00 | \$5,158.29 |
| Cost Element 81 Totals: | | | | | \$0.00 | \$5,158.29 |
| 8L MassAllocation Allocation | | | CSS RATE APPLIED TO AR/PL | GL | \$0.00 | \$2,603.54 |
| Cost Element 8L Totals: | | | | | \$0.00 | \$2,603.54 |
| 8P MassAllocation Allocation | | | MSA RATE APPLIED TO AR/PL | GL | \$0.00 | \$3,096.23 |

Work Package Cost Query 1.0

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FERMILAB WORK PACKAGE COST REPORT FOR: HYM

PERIOD END:AUG-02

RUN DATE: 09/06/2002

| Cost Elements/Description | Prior Fiscal Year Costs | <- Current Cur. Mon. Costs | Fiscal Year - > F-Y-T-D Total | Total Cost To Date | Open Commitments | Total Cost & Commitments To Date |
|--|----------------------------------|-------------------------------------|---|-----------------------|---------------------|--|
| Details for work package: 5HYM | | | | | | |
| 1D VAC EARNED ALLOC-MONTHLY | 0.00 | 87.31 | 87.31 | 87.31 | 0.00 | 87.31 |
| 1F OPTO ALLOC-MONTHLY | 0.00 | 48.50 | 48.50 | 48.50 | 0.00 | 48.50 |
| 1V INTRA-DIV FRINGE | 0.00 | 184.32 | 184.32 | 184.32 | 0.00 | 184.32 |
| 1W INTRA-DIV CHARGE-MONTHLY | 0.00 | 646.73 | 646.73 | 646.73 | 0.00 | 646.73 |
| 25 CONSTRUCTION ENGINEERING | 0.00 | 12736.00 | 21248.00 | 21248.00 | 0.00 | 21248.00 |
| 43 SUB-CONTRACT SERVICES | 0.00 | 41283.08 | 41587.08 | 41587.08 | 23000.00 | 64587.08 |
| 81 G&A DISTRIBUTION | 0.00 | 5158.29 | 6047.06 | 6047.06 | 0.00 | 6047.06 |
| 8L CSS ALLOCATION | 0.00 | 2603.54 | 4220.82 | 4220.82 | 0.00 | 4220.82 |
| 8P MSA ALLOCATION | 0.00 | 3096.23 | 3119.03 | 3119.03 | 0.00 | 3119.03 |
| B2 BUDGET- 1YB MATERIALS & SERVICES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| BA BUDGET- 2ZA SALARIES & FRINGES | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| BP BUDGET- 2ZP G&A ALLOCATION | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| REQUISITION ENCUMBRANCE | | | | | \$0.00 | \$0.00 |
| 5HYM TOTALS | \$0.00 | \$65,844.00 | \$77,188.85 | \$77,188.85 | \$23,000.00 | \$100,188.85 |

| | | | | | | |
|-----------------------------|--------|-------------|-------------|-------------|-------------|--------------|
| REQ ENCUMBRANCE - ALL WKPs | | | | | \$0.00 | \$0.00 |
| TOTAL ALL WKP W/ENC: | \$0.00 | \$65,844.00 | \$77,188.85 | \$77,188.85 | \$23,000.00 | \$100,188.85 |
| TOTAL DIST TO ACCTS. REC.: | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$0.00 |
| TOTAL FOR ALL WORK PACKAGES | \$0.00 | \$65,844.00 | \$77,188.85 | \$77,188.85 | \$23,000.00 | \$100,188.85 |

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